

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Southern Natural Gas Company - Toca Compressor Station
Agency Interest No.: 17664
El Paso Corporation - Southern Natural Gas Company
St. Bernard, St. Bernard Parish, Louisiana**

I. Background

Southern Natural Gas Company has owned and operated the Toca natural gas compressor station since it was built in 1953. The facility retained its grandfather status until it replaced four existing regenerative heaters with two new larger heaters under permit 2500-00019-00 issued on April 26, 1988. Permit 2500-00019-01 was issued on December 19, 1996 to authorize the installation of two Solar Centaur gas fired turbines. The Toca Compressor Station received its initial Part 70 Operating Permit No. 2500-00019-V0 on August 13, 2001. The facility currently operates under Part 70 Permit No. 2500-00019-V1, issued April 30, 2004.

II. Origin

A permit application and Emission Inventory Questionnaire was submitted by Southern Natural Gas Company on January 23, 2006 requesting a modification to the Part 70 operating permit and permit renewal. Additional information was also received on November 8, 2006. An administrative amendment request had previously been submitted on May 24, 2004.

III. Description

The Toca Compressor Station is a compressor facility, which receives natural gas and compresses the gas utilizing (2) 4,700 hp turbine driven compressor units and a liquid handling facility. The facility also utilizes (3) 1,100 hp four stroke rich burn compressor engines, (2) 2,000 hp four stroke lean burn compressor engines, (5) 660 hp four stroke rich burn compressor engines and (4) 2,900 hp two stroke lean burn compressor engines. A 1,053 hp reciprocating engine driven generator is utilized to produce electrical power for the plant during power outages.

The Toca Compressor Station receives unprocessed natural gas from offshore wells through three pipelines. The natural gas fluid enters one of five junction separators that utilize physical separation principles to separate the gas and liquid phases. Normal operation is for the two streams to be sent to the adjacent but separately owned and operated Enterprise Products LLC Gas Processing Plant. After Enterprise completes the processing of the natural gas, it is sent back to the Toca Compressor Station for compression prior to being sent offsite for future sales. The processed liquid stream is not returned to the Toca Compressor Station.

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Under nonstandard conditions, the Enterprise facility cannot receive either the liquid or gas or both streams for processing. During those periods, the liquid stream is routed to an on site flare gas separator, which then allows additional gases to flash. These additional gases are routed to the facility flare. The liquid stream is routed to any of the condensate storage tanks, until it is loaded into tank trucks for delivery to the Enterprise facility.

When either all or a portion of the natural gas stream cannot be sent to the Enterprise facility, some is routed to the facility's four Hydrocarbon Recovery Units for the removal of water and heavy hydrocarbons (C-5+). The stream from the HRU's and the stream that bypasses them are then recombined prior to entering the compressors. The adsorbing material in the HRU's periodically become saturated and requires regeneration.

Southern Natural Gas Company modified the facility in January 2005 per Consolidated Compliance Order and Notice of Potential Penalty under Enforcement Tracking No. AE-CN-03-0421 issued on December 18, 2003. This facility modification, Liquids Handling and Flash Gas Emissions Control Project, added flash gas separators, vapor recovery units, and a flare. All these components provide sufficient control and recovery of flash gases.

In the permit renewal, the Southern Natural Gas proposes the following:

- Add the RICE MACT Project to comply with the control requirements of 40 CFR 63, Subpart ZZZZ which will install Non-Selective Catalytic Reduction (NSCR) control systems on Compressor Engine No.2 (001C-002) and Compressor Engine 3 (001C-003)
- Revise permitted emission rates for the facility flare (FL-2) and fugitive emissions (001FM-001)
- Revise permitted emission rates for compressor turbines (C-015 and C-016)
- Remove fuel sulfur content monitoring requirement of NSPS Subpart GG for turbines (C-015 and C-016)
- Increase hours of operation for emergency generator (004G-002)
- Update the Insignificant Activities list and the General Condition XVII Activities

Following the completion of the RICE MACT Project, Southern Natural Gas will retire six rich burn compressor engines (0001C-001, 0001C-006 through 0001C-010) before the RICE MACT compliance deadline of June 15, 2007. Southern Natural Gas will retain existing permit conditions on these engines and will submit a subsequent request for rescission of permit terms and conditions for these engines before the compliance deadline.

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Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	39.62	39.84	+0.22
SO ₂	1.08	2.40	+1.32
NO _x	2911.87	2510.61	-401.26
CO	1765.86	1771.87	+6.01
VOC *	416.60	415.36	-1.24

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Benzene	0.37	0.38	+0.01
Ethyl Benzene	0.56	0.56	-
Ethylene Glycol	4.28	1.10	-3.18
Formaldehyde	45.91	44.89	-1.02
n-Hexane	1.21	1.27	+0.06
Toluene	0.86	0.87	+0.01
Xylenes	0.27	0.27	-
Total	53.46	49.34	-4.12

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, and New Source Performance Standards (NSPS). The facility is subject to the control requirements of NSPS Subpart GG for Stationary Gas Turbines and also Subpart A General Provisions. The facility is also subject to NESHAP (40 CFR 63) Subpart ZZZZ for Reciprocating Internal Combustion Engines and also NESHAPS (40 CFR 61) Subpart M for Asbestos. The facility is also subject to the initial notification requirement of 40 CFR 63 Subpart DDDDD Industrial, Commercial, Institutional Boilers and Process Heaters. Prevention of Significant Deterioration do not apply.

This facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

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V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Dispersion Model(s) Used: ISCST3 (Screen)

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})

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VIII. General Condition XVII Activities

Work Activity	Emission Rates – tons per year				
	PM ₁₀	SO ₂	NO _x	CO	VOC
Blowing Drips	-	-	-	-	<0.01
Calibrating Gas Sniffers	-	-	-	-	<0.01
Changing Filters	-	-	-	-	0.50
Changing Orifice Plates	-	-	-	-	<0.01
Dead Weight Testing	-	-	-	-	<0.01
Facility Start-up/ Shut-down	0.05	0.01	4.69	2.77	0.56
Gas Sampling	-	-	-	-	<0.01
HP VRU Blowdown	-	-	-	-	0.09 (<0.01 each; BTEX, n-C ₆)
Inspections on Control Devices	-	-	-	-	<0.01
LP VRU Maintenance	-	-	-	-	<0.01
Meter Testing	-	-	-	-	0.05
Meter Tube Inspection	-	-	-	-	<0.01
Misc Equipment Preparation	-	-	-	-	<0.01
Pump Maintenance	-	-	-	-	0.05
Purge Gas	-	-	-	-	0.50
Removal of Solids from Sumps	-	-	-	-	0.05
Removal of Tank Sludge	-	-	-	-	0.05
Safety Inspections - Valves	-	-	-	-	<0.01
Safety Inspections - Discs	-	-	-	-	0.01
Tank Gauging	-	-	-	-	0.50
Testing/Venting of ESD	-	-	-	-	1.01
Valve Maintenance	-	-	-	-	0.50
Vessel/Pipeline Blowdowns	-	-	-	-	0.54

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IX. Insignificant Activities

ID No.:	Description	Citation
-	(2) Used Oil Storage Tanks (70 gallons)	LAC 33:III.501.B.5.A.2.
	Used Oil Storage Tank (200 gallons)	LAC 33:III.501.B.5.A.2.
-	Turbine Oil Storage Tank (200 gallons)	LAC 33:III.501.B.5.A.2.
-	Turbine Fuel Gas Heater 1 MM Btu/hr	LAC 33:III.501.B.5.A.5.
-	Aviation Fuel Storage Tank (4,100 gallons)	LAC 33:III.501.B.5.A.2.
-	New Aviation Fuel Tank (5,000 gallons)	LAC 33:III.501.B.5.A.2.
-	Oily Water Storage Tank (8,800 gallons)	LAC 33:III.501.B.5.A.2.
-	Ambitrol Storage Tank (605 gallons)	LAC 33:III.501.B.5.A.2.
-	Ambitrol Storage Tank (1,150 gallons)	LAC 33:III.501.B.5.A.2.
-	Ambitrol Storage Tank (1,450 gallons)	LAC 33:III.501.B.5.A.2.
-	(2) Glycol Storage Tanks (1,079 gallons)	LAC 33:III.501.B.5.A.2.
-	Scrubber Charge Oil Storage Tank (300 gallons)	LAC 33:III.501.B.5.A.2.
-	Oil Storage Tank (600 gallons)	LAC 33:III.501.B.5.A.2.
-	Used Oil Storage Tank (1,400 gallons)	LAC 33:III.501.B.5.A.2.
-	Used Oil Storage Tank (1,510 gallons)	LAC 33:III.501.B.5.A.2.
-	(9) Chromatograph / Fuel Gas Heaters 4,000 Btu/hr each	LAC 33:III.501.B.5.A.5.
-	Chromatographs	LAC 33:III.501.B.5.A.6.
-	(4) Office Heaters 105,000 Btu/hr each	LAC 33:III.501.B.5.A.5.
-	(3) Office Heaters 120,000 Btu/hr each	LAC 33:III.501.B.5.A.5.
-	(3) Office Heaters 200,000 Btu/hr each	LAC 33:III.501.B.5.A.5.
-	Instrument Maintenance	LAC 33:III.501.B.5.B.3

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III. Chapter																	
		5 ^A	9	11	13	15	2103	2104*	2107	2111	2113	2116*	2121	22	29*	51*	53*	56	59*
	Facility Wide	1	1	1	1	2				1	1				1	2		1	1
EQT 2	C-015 Compressor Turbine Unit No. 15			1	1	2													
EQT 3	C-016 Compressor Turbine Unit No. 16			1	1	2													
EQT 4	001C-001 Compressor Engine Unit No. 1			1	1	2													
EQT 5	001C-002 Compressor Engine Unit No. 2			1	1	2													
EQT 6	001C-003 Compressor Engine Unit No. 3			1	1	2													
EQT 7	001C-004 Compressor Engine Unit No. 4			1	1	2													
EQT 8	001C-001 Compressor Engine Unit No. 5			1	1	2													
EQT 9	001C-002 Compressor Engine Unit No. 6			1	1	2													
EQT 10	001C-003 Compressor Engine Unit No. 7			1	1	2													
EQT 11	001C-004 Compressor Engine Unit No. 8			1	1	2													
EQT 12	001C-003 Compressor Engine Unit No. 9			1	1	2													
EQT 13	001C-004 Compressor Engine Unit No. 10			1	1	2													
EQT 14	001C-001 Compressor Engine Unit No. 11			1	1	2													
EQT 15	001C-002 Compressor Engine Unit No. 12			1	1	2													
EQT 16	001C-003 Compressor Engine Unit No. 13			1	1	2													
EQT 17	001C-004 Compressor Engine Unit No. 14			1	1	2													

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ID No.:	Description	LAC 33:III.Chapter																		
		5 [▲]	9	11	13	15	2103	2104*	2107	2111	2113	2116*	2121	22	29*	51*	53*	56	59*	
EQT 19	005H-001 Regenerative Heater 1																			
EQT 20	005H-002 Regenerative Heater 2																			
EQT 21	009T-011 Lube Oil Storage Tank																			
EQT 22	009T-012 Lube Oil Storage Tank																			
EQT 23	009T-010 Condensate Storage Tank																			
EQT 24	FL-2 Flare			1		2		1												
EQT 26	TTL-1 Tank Truck Loading Operation																			
EQT 27	004G-002 Generator Engine			1	1	2														
FUG 1	001FM-001 Facility Fugitives																			

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501 .C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

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KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61				40 CFR 63 NESHAP				40 CFR			
		A	K	Kb	Db	Dc	GG	KKK	A	J	M	HH	HHH	YYYY	ZZZZ	DDDDD	52	64 68	
	Facility Wide							3			1	2	2					1	3
EQT 2	C-015 Compressor Turbine Unit No. 15	1					1												
EQT 3	C-016 Compressor Turbine Unit No. 16	1					1												
EQT 4	001C-001 Compressor Engine Unit No. 1														1				
EQT 5	001C-002 Compressor Engine Unit No. 2														1				
EQT 6	001C-003 Compressor Engine Unit No. 3														1				
EQT 7	001C-004 Compressor Engine Unit No. 4														2				

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		A	K	Kb	Db	Dc	GG	KKK	A	J	M	HH	HHH	YYYY	ZZZZ	DDDDD	52	64	68		
EQT 8	001C-001 Compressor Engine Unit No. 5														2						
EQT 9	001C-002 Compressor Engine Unit No. 6														1						
EQT 10	001C-003 Compressor Engine Unit No. 7														1						
EQT 11	001C-004 Compressor Engine Unit No. 8														1						
EQT 12	001C-003 Compressor Engine Unit No. 9														1						
EQT 13	001C-004 Compressor Engine Unit No. 10														1						
EQT 14	001C-001 Compressor Engine Unit No. 11														2						
EQT 15	001C-002 Compressor Engine Unit No. 12														2						
EQT 16	001C-003 Compressor Engine Unit No. 13														2						
EQT 17	001C-004 Compressor Engine Unit No. 14														2						
EQT 19	005H-001 Regenerative Heater 1									3										2	
EQT 20	005H-002 Regenerative Heater 2									3											2
EQT 21	009T-011 Lube Oil Storage Tank										3										
EQT 22	009T-012 Lube Oil Storage Tank										3										
EQT 23	009T-010 Condensate Storage Tank										3										
EQT 24	FL-2 Flare																				1
EQT 26	TTL-1 Tank Truck Loading Operation																				
EQT 27	004G-002 Generator Engine																				2

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 63 NESHAP			40 CFR									
		A	K	Kb	Db	Dc	GG	KKK	A	J	M	HH	HHH	YYYY	ZZZZ	DDDD	52	64	68	
FUG 1	001FM-001 Facility Fugitives																			

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
Entire Facility	40 CFR 63 Subpart HH National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities	DOES NOT APPLY. Storage tank does not store petroleum liquids with Gas Oil Ratio equal to or greater than 0.31 cubic meters per liter. (1750 scf/bbl) Compressors do not operate in Volatile Hazardous Air Pollutant service, as the VHAP concentration is less than 10 percent. Per 40 CFR 63.760(d), facilities that do not contain any affected sources are not subject to the requirements of this regulation.
	40 CFR 63 Subpart HHH National Emission Standards for Hazardous Air Pollutants: Natural Gas Transmission and Storage	DOES NOT APPLY. The facility does not have an affected source (a glycol dehydration unit). Per 40 CFR 63.1270(d), facilities that do not contain any affected sources are not subject to the requirements of this regulation.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III. Chapter 51]	EXEMPT. Emissions from the combustion of Group 1 virgin fossil fuels are exempt per LAC 33.III.5105.B.3.a Emissions from any oil or gas exploration or production well and its associated equipment, and from any pipeline compressor or pump station shall not be aggregated per LAC 33.III.5105.B.5.a and b.

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ID No:	Requirement	Notes
Entire Facility	40 CFR 68 Chemical Accident Prevention	DOES NOT APPLY. No other substance besides natural gas will be handled or stored in quantities greater than the applicability threshold. Not considered a stationary source under 40 CFR 69.3 because it is regulated under 49 CFR 192.DOT
	LAC 33:III.Chapter 59 Chemical Accident Prevention Program	DOES NOT APPLY. Facility does not produce, process, handle, or store any substance listed in § 68.130 or Table 59.0 and Table 59.1 of Chapter 59 in an amount greater than the threshold quantity (as determined in the manner described in § 68.115). §5907
	40 CFR 60 Subpart KKK Standards of Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants	DOES NOT APPLY. Facility does not meet the definition of a natural gas processing plant.
	40 CFR 63 Subpart YYYYY National Emission Standards for Stationary Combustion Turbines	DOES NOT APPLY. Per 40 CFR 63.6090(b)(4) the regulation does not apply to existing sources.

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ID No:	Requirement	Notes
001C-001 through 001C-005, 001C-006 through 001C-014 Compressor Engines C-015, C-016 Compressor Turbines FL-2 Flare	Emissions Standards for Particulate Matter [LAC 33:III.1313.C]	DOES NOT APPLY. Fuel burning is not used for the purpose of producing heat.

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ID No:	Requirement	Notes
001C-001 through 001C-005, 001C-006 through 001C-014 Compressor Engines	Emission Standards for Sulfur Dioxide [LAC 33:III.1503.C]	EXEMPT. Unit emit less than 250 tons of SO ₂ per year. Record and retain at the site for at least 2 years the data required to demonstrate exemption from SO ₂ standards of Chapter 15. Exemption data shall be reported annually in accordance with LAC 33:III.918.
005H-001, 005G-002 Regenerative Heaters		
C-015, C-016 Compressor Turbines		
FL-2 Flare		

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ID No:	Requirement	Notes
001C-004 through 001C-05, 001C-011 through 001C-014 Compressor Engines	40 CFR 63 Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants – Reciprocating Internal Combustion Engines	DOES NOT APPLY. These units are existing two-stroke lean burn engines and are not required to comply with this requirement per 40 CFR 63.600(c).
009T-011 009T-12 Lube Oil Storage Tanks	40 CFR 60 Subpart K Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, and/or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	DOES NOT APPLY. Tanks were constructed before June 11, 1973.
	Storage of Volatile Organic Compounds [LAC 33:III.2103.A]	DOES NOT APPLY. Tanks store material with a true vapor pressure less than 1.5 psia.
001FM-001 Facility Fugitives	Fugitive Emission Control [LAC 33:III.2121]	DOES NOT APPLY. Site is not a petroleum refinery, natural gas processing plant, SOGMI facility, MTBE plant, or polymer manufacturing industry.

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The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

40 CFR PART 70 GENERAL CONDITIONS

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]

- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]

- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

40 CFR PART 70 GENERAL CONDITIONS

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.

- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.

- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated January 23, 2006, along with supplemental information dated November 8, 2006.

- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
 - 1. Generally be less than 5 TPY
 - 2. Be less than the minimum emission rate (MER)
 - 3. Be scheduled daily, weekly, monthly, etc., or
 - 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
 La. Dept. of Environmental Quality
 Post Office Box 4302
 Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 17664 Southern Natural Gas Co - Toca Compressor Station
Activity Number: PER20060001
Permit Number: 2500-00019-V2
Air - Title V Regular Permit Renewal

Also Known As:

ID	Name	User Group	Start Date
2500-00019	Southern Natural Gas Co - Toca Compressor Station	CDS Number	08-05-2002
2500-0015	Southern Natural Gas Co - Toca Compressor Station	Emission Inventory	03-03-2004
63-0196650	Federal Tax ID	Federal Tax ID	11-21-1999
LAD980796791	Southern Natural Gas Co - Toca Trans	Hazardous Waste Notification	04-23-1982
00838	Site ID #	Inactive & Abandoned Sites	11-23-1999
LAG531087	LPDES #	LPDES Permit #	11-21-1999
LAG750314	LPDES #	LPDES Permit #	11-21-1999
WP0515	LWDPS #	LWDPS Permit #	06-25-2003
G-087-6068	Site ID #	Solid Waste Facility No.	10-19-2001
19254	Southern Natural Gas Co - Toca Compressor Station	TEMPO Merge	12-05-2001
4835	Southern Natural Gas Co - Toca	TEMPO Merge	07-16-2001
44-008703	UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-12-2002

Physical Location:

2400 Bayou Rd
 St. Bernard, LA 70085

Main Phone: 9858686785

Mailing Address:

158 Regal Row
 Houma, LA 703600147

Location of Front Gate:

29° 51' 4" 14 hundredths latitude, 89° 49' 49" 57 hundredths longitude, Coordinate Method: GPS Code (Pseudo Range) Precise Position, Coordinate Datum: NAD27

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Rae Donaldson	158 Regal Row Houma, LA 70360	9852236421 (WP)	Haz. Waste Billing Party for
Rae Donaldson	158 Regal Row Houma, LA 70360		Water Billing Party for
Ted Meinhold	42621 Hwy 16 Franklinton, LA 70438	9858392393 (WP)	Responsible Official for
Trinh Tran	1001 Louisiana St Ste 1110A Houston, TX 77002	7134207931 (WP)	Air Permit Contact For

Related Organizations:

Name	Address	Phone (Type)	Relationship
El Paso Corp - Southern Natural Gas Co	1001 Louisiana St Ste 1110 Houston, TX 77002		Air Billing Party for
URS Consultants Inc	3500 N Causeway Blvd Ste 900 Metairie, LA 700023257	5048318860 (WF)	Provides environmental services for
URS Consultants Inc	3500 N Causeway Blvd Ste 900 Metairie, LA 700023257	5048376326 (WP)	Provides environmental services for

SIC Codes:

4922, Natural gas transmission

General Information

AI ID: 17664 Southern Natural Gas Co - Toca Compressor Station
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Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station
Activity Number: PER20060001
Permit Number: 2500-00019-V2
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT002	C-015 Compressor Turbine Unit No. 15			4700 horsepower		8760 hr/yr (All Year)
EQT003	C-016 Compressor Turbine Unit No. 16			4700 horsepower		8760 hr/yr (All Year)
EQT004	001C-001 Compressor Engine Unit No. 1			1100 horsepower		8760 hr/yr (All Year)
EQT005	001C-002 Compressor Engine Unit No. 2			1100 horsepower		8760 hr/yr (All Year)
EQT006	001C-003 Compressor Engine Unit No. 3			1100 horsepower		8760 hr/yr (All Year)
EQT007	001C-004 Compressor Engine Unit No. 4			2000 horsepower		8760 hr/yr (All Year)
EQT008	001C-005 Compressor Engine Unit No. 5			2000 horsepower		8760 hr/yr (All Year)
EQT009	001C-006 Compressor Engine Unit No. 6			660 horsepower		8760 hr/yr (All Year)
EQT010	001C-007 Compressor Engine Unit No. 7			660 horsepower		8760 hr/yr (All Year)
EQT011	001C-008 Compressor Engine Unit No. 8			660 horsepower		8760 hr/yr (All Year)
EQT012	001C-009 Compressor Engine Unit No. 9			660 horsepower		8760 hr/yr (All Year)
EQT013	001C-010 Compressor Engine Unit No. 10			660 horsepower		8760 hr/yr (All Year)
EQT014	002C-011 Compressor Engine Unit No. 11			2900 horsepower		8760 hr/yr (All Year)
EQT015	002C-012 Compressor Engine Unit No. 12			2900 horsepower		8760 hr/yr (All Year)
EQT016	002C-013 Compressor Engine Unit No. 13			2900 horsepower		8760 hr/yr (All Year)
EQT017	002C-014 Compressor Engine Unit No. 14			2900 horsepower		8760 hr/yr (All Year)
EQT019	005H-001 Regenerative Heater 1		17.72 MM BTU/hr	16.01 MM BTU/hr		8760 hr/yr (All Year)
EQT020	005H-002 Regenerative Heater 2		17.72 MM BTU/hr	16.01 MM BTU/hr		8760 hr/yr (All Year)
EQT021	009T-011 Lube Oil Storage Tank (10,080 gallons)	10080 gallons				8760 hr/yr (All Year)
EQT022	009T-012 Lube Oil Storage Tank (10,080 gallons)	10080 gallons				8760 hr/yr (All Year)
EQT023	009T-010 Condensate Storage Tank (5,000 barrels)	5000 bbl				8760 hr/yr (All Year)
EQT024	FL-2 Flare			234 MM BTU/hr		8760 hr/yr (All Year)
EQT026	TTL-1 Truck Loading Operation					(None Specified)
EQT027	004G-2 Emergency Generator		1053 horsepower	1053 horsepower		2330 hr/yr (All Year)
FUG001	001FM-001 Facility Fugitives					8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP002	Entire Facility	AI17664 Toca Compressor Station
GRP002	Entire Facility	EQT2 C-015 Compressor Turbine Unit No. 15
GRP002	Entire Facility	EQT3 C-016 Compressor Turbine Unit No. 16
GRP002	Entire Facility	EQT4 001C-001 Compressor Engine Unit No. 1
GRP002	Entire Facility	EQT5 001C-002 Compressor Engine Unit No. 2
GRP002	Entire Facility	EQT6 001C-003 Compressor Engine Unit No. 3
GRP002	Entire Facility	EQT7 001C-004 Compressor Engine Unit No. 4
GRP002	Entire Facility	EQT8 001C-005 Compressor Engine Unit No. 5

INVENTORIES

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP002	Entire Facility	EQT9 001C-006 Compressor Engine Unit No. 6
GRP002	Entire Facility	EQT10 001C-007 Compressor Engine Unit No. 7
GRP002	Entire Facility	EQT11 001C-008 Compressor Engine Unit No. 8
GRP002	Entire Facility	EQT12 001C-009 Compressor Engine Unit No. 9
GRP002	Entire Facility	EQT13 001C-010 Compressor Engine Unit No. 10
GRP002	Entire Facility	EQT14 002C-011 Compressor Engine Unit No. 11
GRP002	Entire Facility	EQT15 002C-012 Compressor Engine Unit No. 12
GRP002	Entire Facility	EQT16 002C-013 Compressor Engine Unit No. 13
GRP002	Entire Facility	EQT17 002C-014 Compressor Engine Unit No. 14
GRP002	Entire Facility	EQT19 005H-001 Regenerative Heater 1
GRP002	Entire Facility	EQT20 005H-002 Regenerative Heater 2
GRP002	Entire Facility	EQT21 009T-011 Lube Oil Storage Tank (10,080 gallons)
GRP002	Entire Facility	EQT22 009T-012 Lube Oil Storage Tank (10,080 gallons)
GRP002	Entire Facility	EQT23 009T-010 Condensate Storage Tank (5,000 barrels)
GRP002	Entire Facility	EQT24 FL-2 Flare
GRP002	Entire Facility	EQT26 TTL-1 Truck Loading Operation
GRP002	Entire Facility	EQT27 004G-2 Emergency Generator
GRP002	Entire Facility	FUG1 001FM-001 Facility Fugitives

Relationships:

Subject Item	Relationship	Subject Item
EQT24 FL-2 Flare	Controls emissions from	EQT26 TTL-1 Truck Loading Operation
EQT24 FL-2 Flare	Controls emissions from	EQT23 009T-010 Condensate Storage Tank (5,000 barrels)

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT002	152.9	69050	2.5	36.4	36.4	850
EQT003	152.9	69050	2.5	36.4	36.4	850
EQT004	218	10281	1	57.4	57.4	1158
EQT005	218	10281	1	57.4	57.4	1158
EQT006	218	10281	1	57.4	57.4	1158
EQT007	104.1	12318	1.58	57.4	57.4	894
EQT008	104.1	12318	1.58	57.4	57.4	894
EQT009	70	3289	1	65.6	65.6	983
EQT010	70	3289	1	65.6	65.6	983
EQT011	70	3289	1	65.6	65.6	983
EQT012	70	3289	1	65.6	65.6	983
EQT013	70	3289	1	65.6	65.6	983

INVENTORIES

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT014	88	25889	2.5	39	843	
EQT015	88	25889	2.5	39	843	
EQT016	88	25889	2.5	39	843	
EQT017	88	25889	2.5	39	843	
EQT019	4.6	1498	2.63	15.75	350	
EQT020	4.6	1498	2.63	15.75	350	

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP002	94	100 hp	1430 - Natural Gas Comp (Turbines)
	222	100 hp	1450 - Recip. Nat Gas Comp (20,000 to 50,000 H.P.)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station
 Activity Number: PER20060001
 Permit Number: 2500-00019-V2
 Air - Title V Regular Permit Renewal

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 002 C-015	0.35	0.35	1.53	0.18	0.18	0.79	4.22	5.13	18.50	9.01	10.11	39.46	0.15	0.17	0.65
EQT 003 C-016	0.35	0.35	1.53	0.18	0.18	0.79	4.22	5.13	18.50	9.01	10.11	39.46	0.15	0.17	0.65
EQT 004	0.25	0.25	1.09	0.01	0.01	0.04	54.49	54.49	238.65	8.40	8.40	36.77	3.27	3.27	14.31
001C-001	0.25	0.25	1.09	0.01	0.01	0.04	2.31	2.31	10.12	7.73	7.73	33.86	2.45	2.45	10.73
001C-002	0.25	0.25	1.09	0.01	0.01	0.04	2.31	2.31	10.12	7.73	7.73	33.86	2.45	2.45	10.73
001C-003	0.25	0.25	1.09	0.01	0.01	0.04	2.31	2.31	10.12	7.73	7.73	33.86	2.45	2.45	10.73
EQT 007	0.18	0.18	0.80	0.01	0.01	0.05	87.48	150.00	383.16	26.46	26.46	115.87	19.49	19.49	85.38
001C-004	0.18	0.18	0.80	0.01	0.01	0.05	87.48	150.00	383.16	26.46	26.46	115.87	19.49	19.49	85.38
001C-005	0.18	0.18	0.80	0.01	0.01	0.05	87.48	150.00	383.16	26.46	26.46	115.87	19.49	19.49	85.38
EQT 009	0.15	0.15	0.65	0.01	0.01	0.02	23.47	23.47	102.81	47.74	47.74	209.09	3.47	3.47	15.21
001C-006	0.15	0.15	0.65	0.01	0.01	0.02	23.47	23.47	102.81	47.74	47.74	209.09	3.47	3.47	15.21
EQT 010	0.15	0.15	0.65	0.01	0.01	0.02	23.47	23.47	102.81	47.74	47.74	209.09	3.47	3.47	15.21
001C-007	0.15	0.15	0.65	0.01	0.01	0.02	23.47	23.47	102.81	47.74	47.74	209.09	3.47	3.47	15.21
EQT 011	0.15	0.15	0.65	0.01	0.01	0.02	23.47	23.47	102.81	47.74	47.74	209.09	3.47	3.47	15.21
001C-008	0.15	0.15	0.65	0.01	0.01	0.02	23.47	23.47	102.81	47.74	47.74	209.09	3.47	3.47	15.21
EQT 012	0.15	0.15	0.65	0.01	0.01	0.02	23.47	23.47	102.81	47.74	47.74	209.09	3.47	3.47	15.21
001C-009	0.15	0.15	0.65	0.01	0.01	0.02	23.47	23.47	102.81	47.74	47.74	209.09	3.47	3.47	15.21
EQT 013	0.15	0.15	0.65	0.01	0.01	0.02	23.47	23.47	102.81	47.74	47.74	209.09	3.47	3.47	15.21
001C-010	0.15	0.15	0.65	0.01	0.01	0.02	23.47	23.47	102.81	47.74	47.74	209.09	3.47	3.47	15.21
EQT 014	1.50	1.50	6.58	0.02	0.02	0.08	47.95	47.95	210.02	13.45	13.45	58.93	3.73	3.73	16.35
002C-011	1.50	1.50	6.58	0.02	0.02	0.08	47.95	47.95	210.02	13.45	13.45	58.93	3.73	3.73	16.35
EQT 015	1.50	1.50	6.58	0.02	0.02	0.08	47.95	47.95	210.02	13.45	13.45	58.93	3.73	3.73	16.35
002C-012	1.50	1.50	6.58	0.02	0.02	0.08	47.95	47.95	210.02	13.45	13.45	58.93	3.73	3.73	16.35
EQT 016	1.50	1.50	6.58	0.02	0.02	0.08	47.95	47.95	210.02	13.45	13.45	58.93	3.73	3.73	16.35
002C-013	1.50	1.50	6.58	0.02	0.02	0.08	47.95	47.95	210.02	13.45	13.45	58.93	3.73	3.73	16.35
EQT 017	1.50	1.50	6.58	0.02	0.02	0.08	47.95	47.95	210.02	13.45	13.45	58.93	3.73	3.73	16.35
002C-014	1.50	1.50	6.58	0.02	0.02	0.08	47.95	47.95	210.02	13.45	13.45	58.93	3.73	3.73	16.35
EQT 019	0.12	0.13	0.54	0.01	0.01	0.04	1.64	1.74	7.16	1.37	1.46	6.02	0.09	0.10	0.39
005H-001	0.12	0.13	0.54	0.01	0.01	0.04	1.64	1.74	7.16	1.37	1.46	6.02	0.09	0.10	0.39
EQT 020	0.12	0.13	0.54	0.01	0.01	0.04	1.64	1.74	7.16	1.37	1.46	6.02	0.09	0.10	0.39
005H-002	0.12	0.13	0.54	0.01	0.01	0.04	1.64	1.74	7.16	1.37	1.46	6.02	0.09	0.10	0.39

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station
 Activity Number: PER20060001
 Permit Number: 2500-00019-V2
 Air - Title V Regular Permit Renewal

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 021 009T-011													0.01	0.01	0.03
EQT 022 009T-012													0.01	0.01	0.03
EQT 024 FL-2	0.25	1.74	1.09	0.02	0.14	0.09	2.26	15.91	9.91	12.31	86.55	53.95	6.95	62.43	30.42
EQT 027 004G-002	0.15	0.15	0.17	0.01	0.01	0.01	60.12	60.12	70.04	8.21	8.21	9.56	1.74	1.74	2.03
FUG 001 001FM-001													7.49	7.49	32.79

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 39.84 tons/yr
 SO2: 2.40 tons/yr
 NOx: 2510.61 tons/yr
 CO: 1771.87 tons/yr
 VOC: 415.36 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	Benzene			Ethyl benzene			Ethylene glycol			Formaldehyde			Toluene		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 002 C-015										0.04	0.04	0.16			
EQT 003 C-016										0.04	0.04	0.16			
EQT 004 001C-001										0.26	0.26	1.15			
EQT 005 001C-002										0.06	0.06	0.28			
EQT 006 001C-003										0.06	0.06	0.28			
EQT 007 001C-004										0.96	0.96	4.21			
EQT 008 001C-005										0.96	0.96	4.21			
EQT 009 001C-006										0.16	0.16	0.69			
EQT 010 001C-007										0.16	0.16	0.69			
EQT 011 001C-008										0.16	0.16	0.69			
EQT 012 001C-009										0.16	0.16	0.69			
EQT 013 001C-010										0.16	0.16	0.69			
EQT 014 002C-011										1.72	1.72	7.52			
EQT 015 002C-012										1.72	1.72	7.52			
EQT 016 002C-013										1.72	1.72	7.52			
EQT 017 002C-014										1.72	1.72	7.52			
EQT 024 FL-2	0.04	0.19	0.16	0.01	0.06	0.04							0.05	0.26	0.21
EQT 027 004G-002										0.78	0.78	0.91			

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	Xylene (mixed isomers)			n-Hexane		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 002 C-015						
EQT 003 C-016						
EQT 004						
001C-001						
EQT 005						
001C-002						
EQT 006						
001C-003						
EQT 007						
001C-004						
EQT 008						
001C-005						
EQT 009						
001C-006						
EQT 010						
001C-007						
EQT 011						
001C-008						
EQT 012						
001C-009						
EQT 013						
001C-010						
EQT 014						
002C-011						
EQT 015						
002C-012						
EQT 016						
002C-013						
EQT 017						
002C-014						
EQT 024 FL-2	0.01	0.03	0.03	0.29	1.43	1.27
EQT 027 004G-002						

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station
 Activity Number: PER20060001
 Permit Number: 2500-00019-V2
 Air - Title V Regular Permit Renewal

All phases

Subject Item	Benzene			Ethyl benzene			Ethylene glycol			Formaldehyde			Toluene		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 001 001FM-001	0.05	0.05	0.22	0.12	0.12	0.52	0.25	0.25	1.10				0.15	0.15	0.66

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station
 Activity Number: PER20060001
 Permit Number: 2500-00019-V2
 Air - Title V Regular Permit Renewal

All phases

Subject item	Xylene (mixed isomers)		n-Hexane	
	Avg lb/hr	Max lb/hr	Tons/Year	Tons/Year
FUG 001	0.06	0.06	0.24	
001FM-001				

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

- Benzene: 0.38 tons/yr
- Ethyl benzene: 0.56 tons/yr
- Ethylene glycol: 1.10 tons/yr
- Formaldehyde: 44.89 tons/yr
- n-Hexane: 1.27 tons/yr
- Toluene: 0.87 tons/yr
- Xylene (mixed isomers): 0.27 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQI002 C-015 Compressor Turbine Unit No. 15

- 1 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 2 Total suspended particulate \leq 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified
- 3 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 4 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report periods of excess emissions as defined. Subpart GG. [40 CFR 60.334(c)]

EQI003 C-016 Compressor Turbine Unit No. 16

- 5 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 6 Total suspended particulate \leq 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified
- 7 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 8 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report periods of excess emissions as defined. Subpart GG. [40 CFR 60.334(c)]

EQI004 001C-001 Compressor Engine Unit No. 1

- 9 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 10 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 11 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 12 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT004 001C-001 Compressor Engine Unit No. 1

- 13 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 14 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 15 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 16 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]
- 17 This engine is subject to the control requirements of 40 CFR 63 Subpart ZZZZ. Rather than installing the MACT control requirement for this engine, the facility has opted to retire this engine prior to the initial compliance date of June 15, 2007. [LAC 33:III.501.C.6]

EQT005 001C-002 Compressor Engine Unit No. 2

- 18 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies with natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 19 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 20 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 21 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT005 001C-002 Compressor Engine Unit No. 2

- 22 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 23 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 24 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 25 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]
- 26 Formaldehyde \geq 76 % reduction. Subpart ZZZZ. [40 CFR 63.6600(a)]
Which Months: All Year Statistical Basis: None specified
- 27 Maintain catalyst so that the pressure drop across the catalyst does not change by more than two inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test. Subpart ZZZZ. [40 CFR 63.6600(a)]
- 28 Temperature \geq 750 and \leq 1250 F at catalyst inlet. Subpart ZZZZ. [40 CFR 63.6600(a)]
Which Months: All Year Statistical Basis: None specified
- 29 Be in compliance with emission limitations in 40 CFR 63 Subpart ZZZZ at all times, except during periods of startup, shutdown and malfunction. Subpart ZZZZ. [40 CFR 63.6605(a)]
- 30 Operate and maintain in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction. Subpart ZZZZ. [40 CFR 63.6605(b)]
- 31 Conduct each applicable performance test in 40 CFR 63 Subpart ZZZZ Tables 3 and 4. Subpart ZZZZ. [40 CFR 63.6620(a)]
- 32 Conduct each performance test according to the requirements in 40 CFR 63.7(e)(1) and under the specific conditions in 40 CFR 63 Subpart ZZZZ Table 4. Subpart ZZZZ. [40 CFR 63.6620(b)]
- 33 Determine compliance with the percent reduction requirement using equation 1 in 40 CFR 63.6620. Subpart ZZZZ. [40 CFR 63.6620(e)]
- 34 Determine the engine percent load during a performance test by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. Subpart ZZZZ. [40 CFR 63.6620(i)]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT005 001C-002 Compressor Engine Unit No. 2

- 35 Include a written report of the average percent load determination in the notification of compliance status. Include the following information: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, provide the model number of the measurement device, and an estimate of its accurate in percentage of true value. Subpart ZZZZ. [40 CFR 63.6620(j)]
- 36 Equipment/operational data monitored by continuous parameter monitoring system (CPMS) continuously according to the requirements in 40 CFR 63.8 and 40 CFR 63 Subpart ZZZZ Table 5. Subpart ZZZZ. [40 CFR 63.6625(b)]
Which Months: All Year Statistical Basis: None specified
- 37 Demonstrate initial compliance with each applicable emission and operating limitation according to 40 CFR 63 Subpart ZZZZ Table 5. Subpart ZZZZ. [40 CFR 63.6630(a)]
- 38 Establish each applicable operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1b and 2b during the initial performance test. Subpart ZZZZ. [40 CFR 63.6630(b)]
- 39 Demonstrate continuous compliance with each applicable emission limitation and operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b and Tables 2a and 2b according to methods specified in 40 CFR 63 Subpart ZZZZ Table 6. Subpart ZZZZ. [40 CFR 63.6640(a)]
- 40 Reestablish the values of the operating parameters measured during the initial performance test, if the catalyst is changed. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 41 Conduct a performance test to demonstrate that the required emission limitation applicable are being met, if the values of the operating parameters are reestablished. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 42 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.6655(a) through (d), as applicable. Subpart ZZZZ. [40 CFR 63.6655]

EQT006 001C-003 Compressor Engine Unit No. 3

- 43 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 44 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 45 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 46 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 47 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT006 001C-003 Compressor Engine Unit No. 3

- 48 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 49 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 50 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]
- 51 Formaldehyde \geq 76 % reduction. Subpart ZZZZ. [40 CFR 63.6600(a)]
Which Months: All Year Statistical Basis: None specified
- 52 Maintain catalyst so that the pressure drop across the catalyst does not change by more than two inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test. Subpart ZZZZ. [40 CFR 63.6600(a)]
- 53 Temperature \geq 750 and \leq 1250 F at catalyst inlet. Subpart ZZZZ. [40 CFR 63.6600(a)]
Which Months: All Year Statistical Basis: None specified
- 54 Be in compliance with emission limitations in 40 CFR 63 Subpart ZZZZ at all times, except during periods of startup, shutdown and malfunction. Subpart ZZZZ. [40 CFR 63.6605(a)]
- 55 Operate and maintain in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction. Subpart ZZZZ. [40 CFR 63.6605(b)]
- 56 Conduct each applicable performance test in 40 CFR 63 Subpart ZZZZ Tables 3 and 4. Subpart ZZZZ. [40 CFR 63.6620(a)]
- 57 Conduct each performance test according to the requirements in 40 CFR 63.7(e)(1) and under the specific conditions in 40 CFR 63 Subpart ZZZZ Table 4. Subpart ZZZZ. [40 CFR 63.6620(b)]
- 58 Determine compliance with the percent reduction requirement using equation 1 in 40 CFR 63.6620. Subpart ZZZZ. [40 CFR 63.6620(e)]
- 59 Determine the engine percent load during a performance test by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. Subpart ZZZZ. [40 CFR 63.6620(i)]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT006 001C-003 Compressor Engine Unit No. 3

- 60 Include a written report of the average percent load determination in the notification of compliance status. Include the following information: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, provide the model number of the measurement device, and an estimate of its accurate in percentage of true value. Subpart ZZZZ. [40 CFR 63.6620(i)]
- 61 Equipment/operational data monitored by continuous parameter monitoring system (CPMS) continuously according to the requirements in 40 CFR 63.8 and 40 CFR 63 Subpart ZZZZ Table 5. Subpart ZZZZ. [40 CFR 63.6625(b)]
Which Months: All Year Statistical Basis: None specified
- 62 Demonstrate initial compliance with each applicable emission and operating limitation according to 40 CFR 63 Subpart ZZZZ Table 5. Subpart ZZZZ. [40 CFR 63.6630(a)]
- 63 Establish each applicable operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1b and 2b during the initial performance test. Subpart ZZZZ. [40 CFR 63.6630(b)]
- 64 Demonstrate continuous compliance with each applicable emission limitation and operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b and Tables 2a and 2b according to methods specified in 40 CFR 63 Subpart ZZZZ Table 6. Subpart ZZZZ. [40 CFR 63.6640(a)]
- 65 Reestablish the values of the operating parameters measured during the initial performance test, if the catalyst is changed. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 66 Conduct a performance test to demonstrate that the required emission limitation applicable are being met, if the values of the operating parameters are reestablished. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 67 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.6655(a) through (d), as applicable. Subpart ZZZZ. [40 CFR 63.6655]

EQT007 001C-004 Compressor Engine Unit No. 4

- 68 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 69 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 70 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 71 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 72 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT007 001C-004 Compressor Engine Unit No. 4

- 73 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 74 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 75 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]

EQT008 001C-005 Compressor Engine Unit No. 5

- 76 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 77 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 78 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 79 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 80 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT008 001C-005 Compressor Engine Unit No. 5

- 81 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 82 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 83 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]

EQT009 001C-006 Compressor Engine Unit No. 6

- 84 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.101.B]
- Which Months: All Year Statistical Basis: None specified
- 85 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 86 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 87 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 88 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQ1009 001C-006 Compressor Engine Unit No. 6

- 89 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 90 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 91 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]
- 92 This engine is subject to the control requirements of 40 CFR 63 Subpart ZZZZ. Rather than installing the MACT control requirement for this engine, the facility has opted to retire this engine prior to the initial compliance date of June 15, 2007. [LAC 33:III.501.C.6]

EQ1010 001C-007 Compressor Engine Unit No. 7

- 93 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 94 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 95 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 96 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 97 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT010 001C-007 Compressor Engine Unit No. 7

- 98 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 99 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 100 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]
- 101 This engine is subject to the control requirements of 40 CFR 63 Subpart ZZZZ. Rather than installing the MACT control requirement for this engine, the facility has opted to retire this engine prior to the initial compliance date of June 15, 2007. [LAC 33:III.501.C.6]

EQT011 001C-008 Compressor Engine Unit No. 8

- 102 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 103 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 104 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 105 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 106 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT011 001C-008 Compressor Engine Unit No. 8

- 107 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 108 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 109 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]
- 110 This engine is subject to the control requirements of 40 CFR 63 Subpart ZZZZ. Rather than installing the MACT control requirement for this engine, the facility has opted to retire this engine prior to the initial compliance date of June 15, 2007. [LAC 33:III.501.C.6]

EQT012 001C-009 Compressor Engine Unit No. 9

- 111 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 112 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 113 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 114 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 115 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station
 Activity Number: PER20060001
 Permit Number: 2500-00019-V2
 Air - Title V Regular Permit Renewal

EQT012 001C-009 Compressor Engine Unit No. 9

- 116 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 117 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 118 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]
- 119 This engine is subject to the control requirements of 40 CFR 63 Subpart ZZZZ. Rather than installing the MACT control requirement for this engine, the facility has opted to retire this engine prior to the initial compliance date of June 15, 2007. [LAC 33:III.501.C.6]

EQT013 001C-010 Compressor Engine Unit No. 10

- 120 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 121 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 122 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 123 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 124 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT013 001C-010 Compressor Engine Unit No. 10

- 125 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 126 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 127 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]
- 128 This engine is subject to the control requirements of 40 CFR 63 Subpart ZZZZ. Rather than installing the MACT control requirement for this engine, the facility has opted to retire this engine prior to the initial compliance date of June 15, 2007. [LAC 33:III.501.C.6]

EQT014 002C-011 Compressor Engine Unit No. 11

- 129 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 130 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 131 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 132 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 133 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT014 002C-011 Compressor Engine Unit No. 11

- 134 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack tests purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 135 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 136 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]

EQT015 002C-012 Compressor Engine Unit No. 12

- 137 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 138 Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 139 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 140 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 141 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQT015 002C-012 Compressor Engine Unit No. 12

- 142 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 143 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 144 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]

EQT016 002C-013 Compressor Engine Unit No. 13

- 145 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 146 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 147 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 148 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 149 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

Activity Number: PER20060001

Permit Number: 2500-00019-V2

Air - Title V Regular Permit Renewal

EQ1016 002C-013 Compressor Engine Unit No. 13

- 150 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 151 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a primary and secondary ignition performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 152 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]

EQ1017 002C-014 Compressor Engine Unit No. 14

- 153 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 154 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel) [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 155 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 156 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 157 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AIID: 17664 - Southern Natural Gas Co. - Toca Compressor Station
 Activity Number: PER20060001
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EQT017 002C-014 Compressor Engine Unit No. 14

- 158 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack tests purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 159 Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration). [LAC 33:III.501.C.6]
- 160 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]

EQT019 005H-001 Regenerative Heater 1

- 161 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
 Which Months: All Year Statistical Basis: None specified
- 162 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
 Which Months: All Year Statistical Basis: None specified

EQT020 005H-002 Regenerative Heater 2

- 163 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
 Which Months: All Year Statistical Basis: None specified
- 164 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
 Which Months: All Year Statistical Basis: None specified

EQT023 009T-010 Condensate Storage Tank (5,000 barrels)

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EQT023 **009T-010 Condensate Storage Tank (5,000 barrels)**

- 165 Flash gas: VOC, Total >= 95 % reduction. [LAC 33:III.2104.C.1]
 Which Months: All Year Statistical Basis: None specified
- 166 Install a vapor recovery system that directs vapors to a fuel gas system, a sales gas system, an underground gas injection system, or a control device. [LAC 33:III.2104.C.]
- 167 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2104.G.1 and 5. [LAC 33:III.2104.G.]

EQT024 **FL-2 Flare**

- 168 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1105]
 Which Months: All Year Statistical Basis: None specified
- 169 Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify by telephone at (225) 763-3908 during office hours; (225) 342-1234 after hours, weekends, and holidays; or by e-mail utilizing the Incident Report Form and procedures found at www.deq.state.la.us/surveillance. Notification is required only if the upset cannot be controlled in six hours. [LAC 33:III.1105]
- 170 Submit report: Due in writing to the Office of Environmental Compliance, Surveillance Division, within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.1105. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized. [LAC 33:III.1107]
- 171 Flash gas: VOC, Total >= 95 % reduction. [LAC 33:III.2104.C.1]
 Which Months: All Year Statistical Basis: None specified
- 172 Flare gas: Heat content > 300 BTU/scf. [LAC 33:III.2104.F.1]
 Which Months: All Year Statistical Basis: None specified
- 173 Presence of a flame monitored by heat sensing device continuously. [LAC 33:III.2104.F.1]
 Which Months: All Year Statistical Basis: None specified
- 174 Equipment/operational data recordkeeping by electronic or hard copy at the regulator's specified frequency. Keep records of the information specified in LAC 33:III.2104.G.2.a-i-iii and G.4. [LAC 33:III.2104.G.]

EQT027 **004G-2 Emergency Generator**

- 175 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- 176 Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
 Which Months: All Year Statistical Basis: None specified
- 177 Opacity <= 30 percent, except for one six-minute average opacity reading in any one hour period. [LAC 33:III.1311.D]
 Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AL ID: 17664 - Southern Natural Gas Co - Toca Compressor Station

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EQ1027 **004G-2 Emergency Generator**

178 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

179 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]

180 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

181 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack tests purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]

182 Stack gas concentration: Nitrogen oxides monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

183 Stack gas concentration: Carbon monoxide monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

184 Stack gas concentration: Oxygen monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

185 Equipment/operational data recordkeeping by electronic or hard copy semiannually. Recorded parameters are NOx, CO and O2 concentrations in the stack gas obtained during semiannual testing. [LAC 33:III.501.C.6]

186 Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date. [LAC 33:III.501.C.6]

FUG001 **001FM-001 Facility Fugitives**

187 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

188 Equip all rotary pumps and compressors with mechanical seals. [LAC 33:III.2111]

GRP002 **Entire Facility**

189 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]

190 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]

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GRP002 Entire Facility

- 191 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensity an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 192 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 193 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 194 Carbon monoxide <= 1771.87 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 195 Nitrogen oxides <= 2510.61 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 196 Particulate matter (10 microns or less) <= 39.84 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 197 Sulfur dioxide <= 2.40 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 198 Formaldehyde <= 44.89 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 199 VOC, Total <= 415.36 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 200 Benzene <= 0.38 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 201 Ethyl benzene <= 0.56 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 202 Ethylene glycol <= 1.10 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 203 n-Hexane <= 1.27 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 204 Toluene <= 0.87 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 205 Xylene (mixed isomers) <= 0.27 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 206 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.5151.F.1.f]
- 207 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 208 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 209 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]

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GRP002 Entire Facility

- 210 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 211 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]
- 212 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 213 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 214 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 215 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
- 216 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 217 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 218 After final promulgation and by the compliance date, all affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart ZZZZ. [40 CFR 63.6595]
- 219 Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.6645. Subpart ZZZZ. [40 CFR 63.6630(c)]
- 220 Report each instance in which each applicable emission limitation or operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b and Tables 2a and 2b were not met according to the requirements of 40 CFR 63.6650. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 221 Operate in accordance with the startup, shutdown, and malfunction plan during periods of startup, shutdown, and malfunction. Subpart ZZZZ. [40 CFR 63.6640(c)]
- 222 Report each instance in which the applicable requirements in 40 CFR 63 Subpart ZZZZ Table 8 were not met. Subpart ZZZZ. [40 CFR 63.6640(e)]
- 223 Submit all of the applicable notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (e), (g), and (h) by the dates specified, as specified in 40 CFR 63.6645(b) through (f). Subpart ZZZZ. [40 CFR 63.6645]
- 224 Report all deviations as defined in 40 CFR 63 Subpart ZZZZ in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). Subpart ZZZZ. [40 CFR 63.6650(f)]
- 225 Submit compliance status report: Due semiannually, by the 31st of January and July. Include the information specified in 40 CFR 63.6650(c)(1) through (e)(6) and 40 CFR 63 Subpart ZZZZ Table 7 1.a, 1.b, or 1.c. Include the information in 40 CFR 63.6650(d)(1) and (d)(2) and 63.6650(e)(1) through (e)(12), if applicable. Subpart ZZZZ. [40 CFR 63.6650]
- 226 Submit startup, shutdown, and malfunction report: Due by fax or telephone within 2 working days after starting actions inconsistent with the startup, shutdown, and malfunction plan, and by letter within 7 working days after the end of the event unless alternate arrangements have been made with DEQ. Include in the report actions taken for the event, and the information specified in 40 CFR 63.10(d)(5)(ii). Subpart ZZZZ. [40 CFR 63.6650]
- 227 Keep records in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). Subpart ZZZZ. [40 CFR 63.6660(a)]
- 228 Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, as specified in 40 CFR 63.10(b)(1). Subpart ZZZZ. [40 CFR 63.6660(b)]

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- 229 Keep each record readily accessible in hard copy or electronic form on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The remaining 3 years of records may be kept off-site. Subpart ZZZZ. [40 CFR 63.6660(c)]
- 230 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 231 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 232 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 233 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]